VIDEO STEGANOGRAPHY

Abstract of the Disclosure

An input content signal, e.g., representing video, is encoded to hide plural-bit auxiliary data therein. The

5   process generates an intermediate signal that is a function of (a) the plural-bit auxiliary data, and (b) data related to

human perception attributes of the content signal. This intermediate signal is then summed with the content signal to

effect encoding. The plural-bit auxiliary data can include copy control data, i.e., data that can be sensed by a

consumer electronic device and used to disable a copying operation. The intermediate signal may include a pseudo-

random key signal so as to obscure the encoding and require knowledge of a corresponding key at the decoder to

10   extract the auxiliary data from the encoded content. In some embodiments, calibration data is encoded in the content

signal with the auxiliary data. This calibration data desirably has known properties (e.g., spectral attributes, data

content, etc.) facilitating its identification in the encoded content signal. The encoding is desirably robust against

various forms of content degradation, e.g., lossy compression/decompression, scaling, resampling, conversion from

digital to analog and back again, etc., so that the auxiliary data can be detected from the content notwithstanding

15   such corruption.